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## **ABSTRACT OF THE DISCLOSURE**

A sub-nanoliter liquid drop dispensing system is described herein. The liquid drop dispensing system comprises a plurality of dishes embedded in a substrate, and a deformable membrane covering the dish. The dish includes a tapered liquid sample reservoir provided with a nozzle having an aperture at its narrow end, a pumping section adjacent to the reservoir and a microchannel for handling to the reservoir liquid samples.

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